Reply to Office Action of October 21, 2004

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) An image forming apparatus for forming an image on a recording medium by discharging ink from ink-discharge openings, comprising: a print head including ink-discharge surfaces having the ink-discharge openings formed therein; a cylindrical cleaning member composed of an elastic material; moving means for moving effecting relative motion between the cleaning member and the print head relative to each other while keeping the circumferential surface of the cleaning member in contact with the ink-discharge surfaces of the print head; drive control means for controlling the moving means; a cap member for protecting the ink-discharge surfaces of the print head; and cap opening/closing means for opening and closing the cap member, wherein, when the cap member is opened by the cap opening/closing means, by driving the moving means with control of the drive control means so as to move effect relative motion between the cleaning member and the print head relative to each other while keeping the circumferential surface of the cleaning member in contact with the ink-discharge surfaces, ink in the ink-discharge openings is sucked.

2. (Currently Amended) An image forming apparatus for forming an image on a recording medium by discharging ink from ink-discharge openings, comprising: a print head including ink-discharge surfaces having the ink-discharge openings formed therein; a cylindrical cleaning member composed of an elastic material; moving means for moving effecting relative motion between the cleaning member and the print head relative to each other while

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keeping the circumferential surface of the cleaning member in contact with the ink-discharge surfaces of the print head; drive control means for controlling the moving means; discharge control means for controlling a discharge operation of ink from the ink-discharge openings formed in the discharge surfaces; a cap member for protecting the ink-discharge surfaces of the print head; and cap opening/closing means for opening and closing the cap member, wherein, when the cap member is opened by the cap opening/closing means, by driving the moving means with control of the drive control means so as to move effect relative motion between the cleaning member and the print head relative to each other while keeping the circumferential surface of the cleaning member in contact with the ink-discharge surfaces, ink in the ink-discharge openings is sucked, and after the moving of the cleaning member on the ink-discharge surfaces, ink is preliminarily discharged from the ink-discharge openings with control of the discharge control means.

 (Currently Amended) An image forming apparatus for forming an image on a recording. medium by discharging ink from ink-discharge openings, comprising: a print head including ink-discharge surfaces having the ink-discharge openings formed therein; a cylindrical cleaning member composed of an elastic material; moving means for moving effecting relative motion between the cleaning member and the print head relative to each other while keeping the circumferential surface of the cleaning member in contact with the ink-discharge surfaces of the print head; drive control means for controlling the moving means; discharge control means for controlling a discharge operation of ink from the ink-discharge openings formed in the discharge surfaces; a cap member for protecting the ink-discharge surfaces of

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the print head; and cap opening/closing means for opening and closing the cap member, wherein, when the cap member is opened by the cap opening/closing means, by performing a discharge operation of ink from the ink-discharge openings with control of the discharge control means, ink is preliminarily discharged from the ink-discharge openings.

4. (Currently Amended) An image forming apparatus for forming an image on a recording medium by discharging ink from ink-discharge openings, comprising: a print head including ink-discharge surfaces having the ink-discharge openings formed therein; a cylindrical cleaning member composed of an elastic material; a cap member for housing the cleaning member therein and for protecting the ink-discharge surfaces of the print head; cap opening/closing means for opening and closing the cap member and for moving effecting relative motion between the cleaning member and the print head relative to each other in accordance with the opening operation of the cap member while keeping the circumferential surface of the cleaning member in contact with the ink-discharge surfaces of the print head; and drive control means for controlling the cap opening/closing means, wherein, when the cap member is opened by the cap opening/closing means, by driving the cap opening/closing means with control of the drive control means so as to move effect relative motion between the cleaning member and the print head relative to each other while keeping the circumferential surface of the cleaning member in contact with the ink-discharge surfaces, ink in the ink-discharge openings is sucked.

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- 5. (Currently Amended) An image forming apparatus for forming an image on a recording medium by discharging ink from ink-discharge openings, comprising: a print head including ink-discharge surfaces having the ink-discharge openings formed therein; a cylindrical cleaning member composed of an elastic material; a cap member for housing the cleaning member therein and for protecting the ink-discharge surfaces of the print head; cap opening/closing means for opening and closing the cap member and for moving effecting relative motion between the cleaning member and the print head relative to each other in accordance with the opening operation of the cap member while keeping the circumferential surface of the cleaning member in contact with the ink-discharge surfaces of the print head; drive control means for controlling the cap opening/closing means; and discharge control means for controlling a discharge operation of ink from the ink-discharge openings formed in the discharge surfaces, wherein, when the cap member is opened by the cap opening/closing means, by driving the cap opening/closing means with control of the drive control means so as to move effect relative motion between the cleaning member and the print head relative to each other while keeping the circumferential surface of the cleaning member in contact with the ink-discharge surfaces, ink in the ink-discharge openings is sucked, and after the moving of the cleaning member on the ink-discharge surfaces, ink is preliminarily discharged from the ink-discharge openings with control of the discharge control means.
 - 6. (Currently Amended) An image forming apparatus for forming an image on a recording medium by discharging ink from ink-discharge openings, comprising: a print head including ink-discharge surfaces having the ink-discharge openings formed therein; a cylindrical

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cleaning member composed of an clastic material; a cap member for housing the cleaning member therein and for protecting the ink-discharge surfaces of the print head; cap opening/closing means for opening and closing the cap member and for moving effecting relative motion between the cleaning member and the print head relative to each other in accordance with the opening operation of the cap member while keeping the circumferential surface of the cleaning member in contact with the ink-discharge surfaces of the print head; drive control means for controlling the cap opening/closing means; and discharge control means for controlling a discharge operation of ink from the ink-discharge openings formed in the discharge surfaces, wherein, when the cap member is opened by the cap opening/closing means, by performing a discharge operation of ink from the ink-discharge openings with control of the discharge control means, ink is preliminarily discharged from the ink-discharge openings.

7. (Currently Amended) An image forming apparatus for forming an image on a recording medium by discharging ink from ink-discharge openings, comprising: a print head including ink-discharge surfaces having a plurality of rows of the ink-discharge openings formed therein for a corresponding plurality of colors; a cylindrical cleaning member composed of an elastic material; a cap member for housing the cleaning member therein and for protecting the ink-discharge surfaces of the print head; cap opening/closing means for opening and closing the cap member and for moving effecting relative motion between the cleaning member and the print head relative to each other in the a direction orthogonal to the plurality of rows of the ink-discharge openings for the respective colors in accordance with the opening operation

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of the cap member while keeping the circumferential surface of the cleaning member in contact with the ink-discharge surfaces of the print head; drive control means for controlling the cap opening/closing means; and discharge control means for controlling a discharge operation of ink from the ink-discharge openings formed in the discharge surfaces, wherein, when the cap member is opened by the cap opening/closing means, by driving the cap opening/closing means with control of the drive control means so as to move effect relative motion between the cleaning member and the print head relative to each other while keeping the circumferential surface of the cleaning member in contact with the ink-discharge surfaces, ink in the ink-discharge openings is sucked, and in the an order of the rows, over which the cleaning member passes with control of the discharge control means, of the ink-discharge openings for the corresponding colors formed in the ink-discharge surfaces, ink is preliminarily discharged from the ink-discharge openings with control of the discharge control means.

8. (Currently Amended) An image forming apparatus for forming an image on a recording medium by discharging ink from ink-discharge openings, comprising: a print head including ink-discharge surfaces having the ink-discharge openings formed therein; a cylindrical cleaning member composed of an elastic material; moving means for moving effecting relative motion between the cleaning member and the print head relative to each other while keeping the circumferential surface of the cleaning member in contact with the ink-discharge surfaces of the print head; drive control means for controlling the moving means; a cap member for protecting the ink-discharge surfaces of the print head; and cap opening/closing

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means for opening and closing the cap member, wherein, when the cap member is closed by the cap opening/closing means, by driving the moving means with control of the drive control means so as to move effect relative motion between the cleaning member and the print head relative to each other while keeping the circumferential surface of the cleaning member in contact with the ink-discharge surfaces, ink in the ink-discharge openings is sucked.

9. (Currently Amended) An image forming apparatus for forming an image on a recording medium by discharging ink from ink-discharge openings, comprising: a print head including ink-discharge surfaces having the ink-discharge openings formed therein; a cylindrical cleaning member composed of an elastic material; moving means for moving effecting relative motion between the cleaning member and the print head relative to each other while keeping the circumferential surface of the cleaning member in contact with the ink-discharge surfaces of the print head; drive control means for controlling the moving means; discharge control means for controlling a discharge operation of ink from the ink-discharge openings formed in the discharge surfaces; a cap member for protecting the ink-discharge surfaces of the print head; and cap opening/closing means for opening and closing the cap member; wherein, when the cap member is closed by the cap opening/closing means, by driving the moving means with control of the drive control means so as to move effect relative motion between the cleaning member and the print head relative to each other while keeping the circumferential surface of the cleaning member in contact with the ink-discharge surfaces, ink in the ink-discharge openings is sucked, and after the moving of the cleaning member on the ink-discharge surfaces, ink is preliminarily discharged from the ink-discharge openings with

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10. (Currently Amended) An image forming apparatus for forming an image on a recording medium by discharging ink from ink-discharge openings, comprising: a print head including ink-discharge surfaces having the ink-discharge openings formed therein; a cylindrical cleaning member composed of an elastic material; moving means for moving effecting relative motion between the cleaning member and the print head relative to each other while keeping the circumferential surface of the cleaning member in contact with the ink-discharge surfaces of the print head; drive control means for controlling the moving means; discharge control means for controlling a discharge operation of ink from the ink-discharge openings formed in the discharge surfaces; a cap member for protecting the ink-discharge surfaces of the print head; and cap opening/closing means for opening and closing the cap member, wherein, when the cap member is closed by the cap opening/closing means, by performing a discharge operation of ink from the ink-discharge openings with control of the discharge control means, ink is preliminarily discharged from the ink-discharge openings.

11. (Currently Amended) An image forming apparatus for forming an image on a recording medium by discharging ink from ink-discharge openings, comprising: a print head including ink-discharge surfaces having the ink-discharge openings formed therein; a cylindrical cleaning member composed of an elastic material; a cap member for housing the cleaning member therein and for protecting the ink-discharge surfaces of the print head; cap opening/closing means for opening and closing the cap member and for moving effecting

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relative motion between the cleaning member and the print head relative to each other in accordance with the closing operation of the cap member while keeping the circumferential surface of the cleaning member in contact with the ink-discharge surfaces of the print head; and drive control means for controlling the cap opening/closing means, wherein, when the cap member is closed by the cap opening/closing means, by driving the cap opening/closing means with control of the drive control means so as to move effect relative motion between the cleaning member and the print head relative to each other while keeping the circumferential surface of the cleaning member in contact with the ink-discharge surfaces, ink in the ink-discharge openings is sucked.

12. (Currently Amended) An image forming apparatus for forming an image on a recording medium by discharging ink from ink-discharge openings, comprising: a print head including ink-discharge surfaces having the ink-discharge openings formed therein; a cylindrical cleaning member composed of an elastic material; a cap member for housing the cleaning member therein and for protecting the ink-discharge surfaces of the print head; cap opening/closing means for opening and closing the cap member and for moving effecting relative motion between the cleaning member and the print head relative to each other in accordance with the closing operation of the cap member while keeping the circumferential surface of the cleaning member in contact with the ink-discharge surfaces of the print head; drive control means for controlling the cap opening/closing means; and discharge control means for controlling a discharge operation of ink from the ink-discharge openings formed in the discharge surfaces, wherein, when the cap member is closed by the cap opening/closing

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means, by driving the cap opening/closing means with control of the drive control means so as to move effect relative motion between the cleaning member and the print head relative to each other while keeping the circumferential surface of the cleaning member in contact with the ink-discharge surfaces, ink in the ink-discharge openings is sucked, and after the moving of the cleaning member on the ink-discharge surfaces, ink is preliminarily discharged from the ink-discharge openings with control of the discharge control means.

13. (Currently Amended) An image forming apparatus for forming an image on a recording medium by discharging ink from ink-discharge openings, comprising: a print head including ink-discharge surfaces having the ink-discharge openings formed therein; a cylindrical cleaning member composed of an elastic material; a cap member for housing the cleaning member therein and for protecting the ink-discharge surfaces of the print head; cap opening/closing means for opening and closing the cap member and for moving effecting relative motion between the cleaning member and the print head relative to each other in accordance with the closing operation of the cap member while keeping the circumferential surface of the cleaning member in contact with the ink-discharge surfaces of the print head; drive control means for controlling the cap opening/closing means; and discharge control means for controlling a discharge operation of ink from the ink-discharge openings formed in the discharge surfaces, wherein, when the cap member is closed by the cap opening/closing means, by performing a discharge operation of ink from the ink-discharge openings with control of the discharge control means, ink is preliminarily discharged from the ink-discharge openings.

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14. (Currently Amended) An image forming apparatus for forming an image on a recording medium by discharging ink from ink-discharge openings, comprising: a print head including ink-discharge surfaces having a plurality of rows of the ink-discharge openings formed therein for a corresponding plurality of colors; a cylindrical cleaning member composed of an elastic material; a cap member for housing the cleaning member therein and for protecting the ink-discharge surfaces of the print head; cap opening/closing means for opening and closing the cap member and for moving effecting relative motion between the cleaning member and the print head relative to each other in the a direction orthogonal to the plurality of rows of the ink-discharge openings for the respective colors in accordance with the closing operation of the cap member while keeping the circumferential surface of the cleaning member in contact with the ink-discharge surfaces of the print head; drive control means for controlling the cap opening/closing means; and discharge control means for controlling a discharge operation of ink from the ink-discharge openings formed in the discharge surfaces, wherein, when the cap member is closed by the cap opening/closing means, by driving the cap opening/closing means with control of the drive control means so as to move effect relative motion between the cleaning member and the print head relative to each other while keeping the circumferential surface of the cleaning member in contact with the ink-discharge surfaces, ink in the ink-discharge openings is sucked, and in the an order of the rows, over which the cleaning member passes with control of the discharge control means, of the ink-discharge openings for the corresponding colors formed in the ink-discharge surfaces, ink is preliminarily discharged from the ink-discharge openings with control of the discharge control means.

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- 15. (Currently Amended) The image forming apparatus according to claim 1, wherein the cap member is opened and closed when the a closing state of the cap member has continued for a predetermined time interval.
- 16. (Previously Presented) The image forming apparatus according to claims 1, wherein the cap member is closed after an operation of forming an image on a recording sheet.
- 17. (Previously Presented) The image forming apparatus according to claim 1, wherein the cap member is closed unless an image forming operation is performed for a predetermined time interval after an operation of forming an image on a recording sheet.
- 18. (Previously Presented) The image forming apparatus according to claim 2, wherein an ink receiver for receiving ink preliminarily discharged from the ink-discharge openings is provided in the cap member.
- 19. (Currently Amended) A control method of an image forming apparatus for forming an image on a recording medium by discharging ink from ink-discharge openings, the image forming apparatus comprising: a print head including ink-discharge surfaces having the ink-discharge openings formed therein; a cylindrical cleaning member composed of an elastic material; moving means for moving effecting relative motion between the cleaning member and the print head relative to each other while keeping the circumferential surface of the cleaning member in contact with the ink-discharge surfaces of the print head; drive control

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means for controlling the moving means; a cap member for protecting the ink-discharge surfaces of the print head; and cap opening/closing means for opening and closing the cap member, the control method comprising the step of controlling the image forming apparatus such that, when the cap member is opened by the cap opening/closing means, by driving the moving means with control of the drive control means so as to move effect relative motion between the cleaning member and the print head relative to each other while keeping the circumferential surface of the cleaning member in contact with the ink-discharge surfaces, ink in the ink-discharge openings is sucked.

20. (Currently Amended) A control method of an image forming apparatus for forming an image on a recording medium by discharging ink from ink-discharge openings, the image forming apparatus comprising: a print head including ink-discharge surfaces having the ink-discharge openings formed therein; a cylindrical cleaning member composed of an elastic material; moving means for moving effecting relative motion between the cleaning member and the print head relative to each other while keeping the circumferential surface of the cleaning member in contact with the ink-discharge surfaces of the print head; drive control means for controlling the moving means; discharge control means for controlling an discharge operation of ink from the ink-discharge openings formed in the discharge surfaces; a cap member for protecting the ink-discharge surfaces of the print head; and cap opening/closing means for opening and closing the cap member, the control method comprising the step of controlling the image forming apparatus such that, when the cap member is opened by the cap opening/closing means, by driving the moving means with

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member and the print head relative to each other while keeping the circumferential surface of the cleaning member in contact with the ink-discharge surfaces, ink in the ink-discharge openings is sucked, and after the moving of the cleaning member on the ink-discharge surfaces, ink is preliminarily discharged from the ink-discharge openings with control of the discharge control means.

21. (Currently Amended) A control method of an image forming apparatus for forming an image on a recording medium by discharging ink from ink-discharge openings, the image forming apparatus comprising: a print head including ink-discharge surfaces having the ink-discharge openings formed therein; a cylindrical cleaning member composed of an elastic material; moving means for moving effecting relative motion between the cleaning member and the print head relative to each other while keeping the circumferential surface of the cleaning member in contact with the ink-discharge surfaces of the print head; drive control means for controlling the moving means; discharge control means for controlling an discharge operation of ink from the ink-discharge openings formed in the discharge surfaces; a cap member for protecting the ink-discharge surfaces of the print head; and cap opening/closing means for opening and closing the cap member, the control method comprising the step of controlling the image forming apparatus such that, when the cap member is opened by the cap opening/closing means, by performing a discharge operation of ink from the ink-discharge openings with control of the discharge control means, ink is preliminarily discharged from the ink-discharge openings.

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22. (Currently Amended) A control method of an image forming apparatus for forming an image on a recording medium by discharging ink from ink-discharge openings, the image forming apparatus comprising: a print head including ink-discharge surfaces having the inkdischarge openings formed therein; a cylindrical cleaning member composed of an elastic material; a cap member for housing the cleaning member therein and for protecting the inkdischarge surfaces of the print head; cap opening/closing means for opening and closing the cap member and for moving effecting relative motion between the cleaning member and the print head relative to each other in accordance with the opening operation of the cap member while keeping the circumferential surface of the cleaning member in contact with the inkdischarge surfaces of the print head; and drive control means for controlling the cap opening/closing means; the control method comprising the step of controlling the image forming apparatus such that, when the cap member is opened by the cap opening/closing means, by driving the cap opening/closing means with control of the drive control means so as to move effect relative motion between the cleaning member and the print head relative to each other while keeping the circumferential surface of the cleaning member in contact with the ink-discharge surfaces, ink in the ink-discharge openings is sucked.

23. (Currently Amended) A control method of an image forming apparatus for forming an image on a recording medium by discharging ink from ink-discharge openings, the image forming apparatus comprising: a print head including ink-discharge surfaces having the ink-discharge openings formed therein; a cylindrical cleaning member composed of an elastic material; a cap member for housing the cleaning member therein and for protecting the ink-

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discharge surfaces of the print head; cap opening/closing means for opening and closing the cap member and for moving effecting relative motion between the cleaning member and the print head relative to each other in accordance with the opening operation of the cap member while keeping the circumferential surface of the cleaning member in contact with the ink-discharge surfaces of the print head; drive control means for controlling the cap opening/closing means; and discharge control means for controlling an discharge operation of ink from the ink-discharge openings formed in the discharge surfaces; the control method comprising the step of controlling the image forming apparatus such that, when the cap member is opened by the cap opening/closing means, by driving the cap opening/closing means with control of the drive control means so as to move effect relative motion between the cleaning member and the print head relative to each other while keeping the circumferential surface of the cleaning member in contact with the ink-discharge surfaces, ink in the ink-discharge openings is sucked, and after the moving of the cleaning member on the ink-discharge openings is preliminarily discharged from the ink-discharge openings with control of the discharge control means.

24. (Currently Amended) A control method of an image forming apparatus for forming an image on a recording medium by discharging ink from ink-discharge openings, the image forming apparatus comprising: a print head including ink-discharge surfaces having the ink-discharge openings formed therein; a cylindrical cleaning member composed of an clastic material; a cap member for housing the cleaning member therein and for protecting the ink-discharge surfaces of the print head; cap opening/closing means for opening and closing the

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cap member and for moving effecting relative motion between the cleaning member and the print head relative to each other in accordance with the opening operation of the cap member while keeping the circumferential surface of the cleaning member in contact with the ink-discharge surfaces of the print head; drive control means for controlling the cap opening/closing means; and discharge control means for controlling an discharge operation of ink from the ink-discharge openings formed in the discharge surfaces, the control method comprising the step of controlling the image forming apparatus such that, when the cap member is opened by the cap opening/closing means, by performing a discharge operation of ink from the ink-discharge openings with control of the discharge control means, ink is preliminarily discharged from the ink-discharge openings.

25. (Currently Amended) A control method of an image forming apparatus for forming an image on a recording medium by discharging ink from ink-discharge openings, the image forming apparatus comprising: a print head including ink-discharge surfaces having a plurality of rows of the ink-discharge openings formed therein for a corresponding plurality of colors; a cylindrical cleaning member composed of an elastic material; a cap member for housing the cleaning member therein and for protecting the ink-discharge surfaces of the print head; cap opening/closing means for opening and closing the cap member and for moving effecting relative motion between the cleaning member and the print head relative to each other in the a direction orthogonal to the plurality of rows of the ink-discharge openings for the respective colors in accordance with the opening operation of the cap member while keeping the circumferential surface of the cleaning member in contact with the ink-discharge

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surfaces of the print head; drive control means for controlling the cap opening/closing means; and discharge control means for controlling an discharge operation of ink from the ink-discharge openings formed in the discharge surfaces, the control method comprising the step of controlling the image forming apparatus such that, when the cap member is opened by the cap opening/closing means, by driving the cap opening/closing means with control of the drive control means so as to move effect relative motion between the cleaning member and the print head relative to each other while keeping the circumferential surface of the cleaning member in contact with the ink-discharge surfaces, ink in the ink-discharge openings is sucked, and in the an order of the rows, over which the cleaning member passes with control of the discharge control means, of the ink-discharge openings for the corresponding colors formed in the ink-discharge surfaces, ink is preliminarily discharged from the ink-discharge openings with control of the discharge control means.

26. (Currently Amended) A control method of an image forming apparatus for forming an image on a recording medium by discharging ink from ink-discharge openings, the image forming apparatus comprising: a print head including ink-discharge surfaces having the ink-discharge openings formed therein; a cylindrical cleaning member composed of an elastic material; moving means for moving effecting relative motion between the cleaning member and the print head relative to each other while keeping the circumferential surface of the cleaning member in contact with the ink-discharge surfaces of the print head; drive control means for controlling the moving means; a cap member for protecting the ink-discharge surfaces of the print head; and cap opening/closing means for opening and closing the cap

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member, the control method comprising the step of controlling the image forming apparatus such that, when the cap member is closed by the cap opening/closing means, by driving the moving means with control of the drive control means so as to move effect relative motion between the cleaning member and the print head relative to each other while keeping the circumferential surface of the cleaning member in contact with the ink-discharge surfaces, ink in the ink-discharge openings is sucked.

27. (Currently Amended) A control method of an image forming apparatus for forming an image on a recording medium by discharging ink from ink-discharge openings, the image forming apparatus comprising: a print head including ink-discharge surfaces having the ink-discharge openings formed therein; a cylindrical cleaning member composed of an elastic material; moving means for moving effecting relative motion between the cleaning member and the print head relative to each other while keeping the circumferential surface of the cleaning member in contact with the ink-discharge surfaces of the print head; drive control means for controlling the moving means; discharge control means for controlling an discharge operation of ink from the ink-discharge openings formed in the discharge surfaces; a cap member for protecting the ink-discharge surfaces of the print head; and cap opening/closing means for opening and closing the cap member, the control method comprising the step of controlling the image forming apparatus such that, when the cap member is closed by the cap opening/closing means, by driving the moving means with control of the drive control means so as to move effect relative motion between the cleaning member and the print head relative to each other while keeping the circumferential surface of

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the cleaning member in contact with the ink-discharge surfaces, ink in the ink-discharge openings is sucked, and after the moving of the cleaning member on the ink-discharge surfaces, ink is preliminarily discharged from the ink-discharge openings with control of the discharge control means.

28. (Currently Amended) A control method of an image forming apparatus for forming an image on a recording medium by discharging ink from ink-discharge openings, the image forming apparatus comprising: a print head including ink-discharge surfaces having the ink-discharge openings formed therein; a cylindrical cleaning member composed of an elastic material; moving means for moving effecting relative motion between the cleaning member and the print head relative to each other while keeping the circumferential surface of the cleaning member in contact with the ink-discharge surfaces of the print head; drive control means for controlling the moving means; discharge control means for controlling an discharge operation of ink from the ink-discharge openings formed in the discharge surfaces; a cap member for protecting the ink-discharge surfaces of the print head; and cap opening/closing means for opening and closing the cap member, the control method comprising the step of controlling the image forming apparatus such that, when the cap member is closed by the cap opening/closing means, by performing a discharge operation of ink from the ink-discharge openings with control of the discharge control means, ink is preliminarily discharged from the ink-discharge openings.

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29. (Currently Amended) A control method of an image forming apparatus for forming an image on a recording medium by discharging ink from ink-discharge openings, the image forming apparatus comprising: a print head including ink-discharge surfaces having the inkdischarge openings formed therein; a cylindrical cleaning member composed of an elastic material; a cap member for housing the cleaning member therein and for protecting the inkdischarge surfaces of the print head; cap opening/closing means for opening and closing the cap member and for moving effecting relative motion between the cleaning member and the print head relative to each other in accordance with the closing operation of the cap member while keeping the circumferential surface of the cleaning member in contact with the inkdischarge surfaces of the print head; and drive control means for controlling the cap opening/closing means; the control method comprising the step of controlling the image forming apparatus such that, when the cap member is closed by the cap opening/closing means, by driving the cap opening/closing means with control of the drive control means so as to move effect relative motion between the cleaning member and the print head relative to each other while keeping the circumferential surface of the cleaning member in contact with the ink-discharge surfaces, ink in the ink-discharge openings is sucked.

30. (Currently Amended) A control method of an image forming apparatus for forming an image on a recording medium by discharging ink from ink-discharge openings, the image forming apparatus comprising: a print head including ink-discharge surfaces having the ink-discharge openings formed therein; a cylindrical cleaning member composed of an elastic material; a cap member for housing the cleaning member therein and for protecting the ink-

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discharge surfaces of the print head; cap opening/closing means for opening and closing the cap member and for moving effecting relative motion between the cleaning member and the print head relative to each other in accordance with the closing operation of the cap member while keeping the circumferential surface of the cleaning member in contact with the ink-discharge surfaces of the print head; drive control means for controlling the cap opening/closing means; and discharge control means for controlling an discharge operation of ink from the ink-discharge openings formed in the discharge surfaces; the control method comprising the step of controlling the image forming apparatus such that, when the cap member is closed by the cap opening/closing means, by driving the cap opening/closing means with control of the drive control means so as to move effect relative motion between the cleaning member and the print head relative to each other while keeping the circumferential surface of the cleaning member in contact with the ink-discharge surfaces, ink in the ink-discharge openings is sucked, and after the moving of the cleaning member on the ink-discharge surfaces, ink is preliminarily discharged from the ink-discharge openings with control of the discharge control means.

31. (Currently Amended) A control method of an image forming apparatus for forming an image on a recording medium by discharging ink from ink-discharge openings, the image forming apparatus comprising: a print head including ink-discharge surfaces having the ink-discharge openings formed therein; a cylindrical cleaning member composed of an elastic material; a cap member for housing the cleaning member therein and for protecting the ink-discharge surfaces of the print head; cap opening/closing means for opening and closing the

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cap member and for moving <u>effecting relative motion between</u> the cleaning member and the print head relative to each other in accordance with the closing operation of the cap member while keeping the circumferential surface of the cleaning member in contact with the ink-discharge surfaces of the print head; drive control means for controlling the cap opening/closing means; and discharge control means for controlling an discharge operation of ink from the ink-discharge openings formed in the discharge surfaces, the control method comprising the step of controlling the image forming apparatus such that, when the cap member is closed by the cap opening/closing means, by performing a discharge operation of ink from the ink-discharge openings with control of the discharge control means, ink is preliminarily discharged from the ink-discharge openings.

32. (Currently Amended) A control method of an image forming apparatus for forming an image on a recording medium by discharging ink from ink-discharge openings, the image forming apparatus comprising: a print head including ink-discharge surfaces having a plurality of rows of the ink-discharge openings formed therein for a corresponding plurality of colors; a cylindrical cleaning member composed of an elastic material; a cap member for housing the cleaning member therein and for protecting the ink-discharge surfaces of the print head; cap opening/closing means for opening and closing the cap member and for moving affecting relative motion between the cleaning member and the print head relative to each other in the a direction orthogonal to the plurality of rows of the ink-discharge openings for the respective colors in accordance with the closing operation of the cap member while keeping the circumferential surface of the cleaning member in contact with the ink-discharge

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surfaces of the print head; drive control means for controlling the cap opening/closing means; and discharge control means for controlling an discharge operation of ink from the ink-discharge openings formed in the discharge surfaces, the control method comprising the step of controlling the image forming apparatus such that, when the cap member is closed by the cap opening/closing means, by driving the cap opening/closing means with control of the drive control means so as to move effect relative motion between the cleaning member and the print head relative to each other while keeping the circumferential surface of the cleaning member in contact with the ink-discharge surfaces, ink in the ink-discharge openings is sucked, and in the an order of the rows, over which the cleaning member passes with control of the discharge control means, of the ink-discharge openings for the corresponding colors formed in the ink-discharge surfaces, ink is preliminarily discharged from the ink-discharge openings with control of the discharge coutrol means.

33. (Previously Presented) The control method of an image forming apparatus according to claim 19, wherein the cap member is opened and closed when the closing state of the cap member has continued for a predetermined time interval.

34. (Previously Presented) The control method of an image forming apparatus according to claim 19, wherein the cap member is closed after an operation of forming an image on a recording sheet.

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FROM TREXLER ETAL.

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35. (Previously Presented) The control method of an image forming apparatus according to claim 19, wherein the cap member is closed unless an image forming operation is performed for a predetermined time interval after an operation of forming an image on a recording sheet.